

1     Claims

2

3     1.    An implantable medicament delivery device which  
4     is insertable into the female uterine myometrium or  
5     the male prostate gland comprising means capable of  
6     providing controlled delivery of a medicament over a  
7     period of time.

8

9     2.    An implantable medicament delivery device as  
10    claimed in claim 1 comprising

11

12           a body having an outer surface and opposing  
13           ends wherein a first end of the body has a  
14           semi-sharp point.

15

16    3.    An implant as claimed in claim 1 or 2 wherein  
17    the implant is absorbable.

18

19    4.    A device as claimed in claim 2 or 3 wherein the  
20    body is elongate and at the second end includes a  
21    head portion wherein the head portion is a lateral  
22    extension from the longitudinal axis of the elongate  
23    body.

24

25    5.    The device of claim 4 wherein the head portion  
26    is a substantially flat plate which extends in all  
27    radial directions from the second end of the body of  
28    the device.

29

30    6.    A device as claimed in claim 4 or 5 wherein, in  
31    use, the head portion allows manipulation and  
32    surveillance of the implant.

1     7.    The device of any preceding claim wherein the  
2    means capable of providing controlled delivery of a  
3    medicament are provided in or on the body of the  
4    implant.

5

6     8.    The device of any of claims 4 to 7 wherein the  
7    means capable of providing controlled delivery of a  
8    medicament are provided in or on the head portion of  
9    the implant.

10

11    9.    The device of any of claims 2 to 8 wherein the  
12   second end comprises retrieval means.

13

14    10.   The device of any preceding claim wherein the  
15   device retrieval means is an elongate flexible  
16   member.

17

18    11.   The device according to any preceding claim  
19   which has an axial length from 5 mm to 45 mm.

20

21    12.   The device according to any preceding claim  
22   which has a diameter of from 0.5 mm to 4 mm.

23

24    13.   A device according to any preceding claim  
25   comprising at least one medicament.

26

27    14.   The device as claimed in claim 13 wherein the  
28   least one medicament is selected from anti-  
29   infectives, antimicrobials, prebiotics, probiotics,  
30   acidifiers, antivirals, antibiotics, anti-  
31   allergens, anti-inflammatories, anti-fungals,  
32   anti-cholinesterases, nutritional agents,

1     cardiovascular agents, anti-hypertensive agents and  
2     chemotherapeutic agents.

3

4     15. The device as claimed in claim 13 or 14 wherein  
5     the device comprises a medicament for oestrogen  
6     dependent proliferative disorders of the pelvis for  
7     example endometriosis or fibroids.

8

9     16. The device according to any one of claims 13 to  
10    15 wherein said the medicament is at least one  
11    member chosen from the group including progestins,  
12    GnRH agonists / antagonists, NSAIDs, COX-II  
13    inhibitors, combined oral contraceptives, Danazol,  
14    smooth muscle relaxants or aromatase inhibitors.

15

16    17. The device according to any preceding claim  
17    wherein, in use, the cumulative release of  
18    medicament is in an amount selected from 5%, 10%,  
19    15%, 20%, 25%, 30%, 40%, 50%, 60%, 70%, 80%, 90%,  
20    95% or 99% relative to the total amount of  
21    medicament in the device after implantation for a  
22    period of 1 day, 1 week, 2 weeks, 1 month, 2 months,  
23    3 months, 4 months, 6 months, 1 year, 2 years, 3  
24    years, 4 years or 5 years.

25

26    18. A kit for implanting a device as claimed in any  
27    of claims 1 to 17 comprising

28         a device as claimed in any of claims 1 to 15;

29         and

30         an insertion tool comprising an elongate shaft,  
31         said shaft having a handle means at a first end  
32         thereof and device mounting means at a second

1           opposite end wherein the medicament delivery  
2           device is mountable on the device mounting  
3           means of the insertion tool.

4

5       19. A method for introducing a medicament into the  
6       body of a female mammal, comprising the step of  
7       inserting a device according to claims 1 to 17 into  
8       the myometrium.

9

10      20. A method as claimed in claim 19 comprising the  
11      steps of

- 12           - providing the implantable medicament
- 13           delivery device of claims 1 to 15;
- 14           - introducing the medicament delivery device
- 15           into the body via the vagina;
- 16           - penetrating the myometrium; and
- 17           - inserting the medicament delivery device
- 18           into the myometrium.

19

20      21. The method as claimed in claim 20 wherein the  
21      medicament implantable device is introduced into the  
22      body using an insertion tool.

23

24      22. Use of an implantable medicament delivery  
25      device as claimed in claims 1 to 17 to provide long  
26      term local delivery of medicaments to the vaginal  
27      cavity and epithelium and thereby into the pelvic  
28      region and organs thereof including to the bladder,  
29      peritoneum, vulva, vagina, ovaries, fallopian tubes  
30      and/or the uterus and/or then into the bloodstream.

31

1     23.    Use of an implantable medicament delivery  
2     device as claimed in claims 1 to 17 to provide long  
3     term local delivery of medicaments to the myometrium  
4     and thereby into the pelvic region and organs  
5     thereof including to the bladder, peritoneum, vulva,  
6     vagina, ovaries, fallopian tubes and/or the uterus  
7     and/or then into the bloodstream.

8  
9     24.    Use of an implantable delivery device as  
10    claimed in claims 1 to 17 to provide long term local  
11    delivery of medicaments to the prostate gland,  
12    seminal vesicles, rectum, bladder and/or tissues  
13    and/or pelvic region and/or organs thereof and/or  
14    then into the bloodstream.